

459-118  
DRAWING NUMBER 1966  
Institut Supérieur de  
Technique  
E-1 10/2/84

A-102

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REGISTRATION - IRVINE, CALIFORNIA  
REPRODUCED BY PERMITS OF THE  
PORT AUTHORITY OF NEW YORK AND NEW JERSEY  
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**LIST OF SYMBOLS**

**RECESSED FLUORESCENT LIGHTING FIXTURE**

**2'x2' RECESSED FLUORESCENT LIGHTING FIXTURE**

**EXISTING FLUORESCENT LIGHTING FIXTURE TO REMAIN**

**EXISTING FLUORESCENT LIGHTING FIXTURE (RELOCATED)**

**EXISTING FLUORESCENT LIGHTING FIXTURE TO BE REMOVED**

**6" DIAMETER CEILING MOUNTED FLUORESCENT DOWN LIGHT**

**6" DIAMETER CEILING MOUNTED FLUORESCENT DOWN LIGHT, 'E' DENOTES ENERGY EFF.**

**RECESSED COMPACT FLUORESCENT WALL WASHER**

**EXIT SIGN - ARROW SHOWS DIRECTION**

**SINGLE POLE LIGHTING SWITCH**

**THREE WAY LIGHTING SWITCH**

**SINGLE RECEPTACLE, 20A, 125V, 2P, 3WIRE GROUNDING TYPE.**

**DUPLEX RECEPTACLE, 15A, 125V, 2P, 3WIRE GROUNDING TYPE.**

**TELEPHONE OUTLET**

**COMPUTER OUTLET - LETTER DENOTES CONNECTION GROUP**

**CONDUIT RUN CONCEALED IN HUNG CEILING. ARROW DENOTES CONDUIT RUN TO PANEL. EACH MATCH MARK INDICATES 1/2" 12 AWG WIRE. A MATCH MARK WITH LETTER 'G' INDICATES 1/2" 12 AWG GROUNDING WIRE.**

**EXISTING POWER & COMMUNICATION FLOOR DUCT. RECTANGLE DENOTES ACCESS OPENING IN FLOOR.**

**JUNCTION BOX**

**CONTROL TRANSFORMER 10, 100VA, 120-24 VOLTS**

**THERMOSTAT**

**MOTORIZED DAMPER OPERATED AT 60°F ± 2, 24V AC**

**EXISTING PANELBOARD - PANEL DESIGNATION & PANEL VOLTAGE RATING (E.G. 400/127 OR 208/120V. AS SHOWN ON PLANS).**

1) NUMERAL INDICATES CIRCUIT DESIGNATION  
2) LETTER IN PARENTHESES INDICATES CONTROL SWITCH  
3) NUMERAL & LETTER COMBINATION INDICATES FIXTURE TYPE. FOR DESCRIPTION SEE LIGHTING FIXTURE SCHEDULE.

20A, 277V, MOUNTED 42" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. 300-LETTER INDICATES FIXTURE(S) CONTROLLED.  
FLUSH MOUNTED ON WALL 10" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. NUMERAL INDICATES CIRCUIT DESIGNATION.  
FLUSH MOUNTED ON WALL 10" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.

**EXISTING PANEL "RP102N" - 208/120V, 3Ø, 4WIRE, 225A. BUS**

LOAD WATTS	SERVICE	TRIP	CIR. NO.	CIR. NO.	TRIP	SERVICE	LOAD WATTS
	ASSIGNED	15A	1	2	15A	ASSIGNED	
			3	4			
			5	6			
1200	RECEPTACLES (8)	15A	7	8	20A	COPIER	1500 *
* 1200	RECEPTACLES (8)	15A	9	10	20A	COPIER	1500
1200	RECEPTACLES (8)	15A	11	12	20A	COPIER	1400
1200	RECEPTACLES (8)	15A	13	14	15A	ASSIGNED	
1200	RECEPTACLES (8)	15A	15	16			
900	RECEPTACLES (6)	15A	17	18			
* 1050	RECEPTACLES (7)	15A	19	20			
* 600	RECEPTACLES (5)	15A	21	22			
	ASSIGNED		23	24			
			25	26	15A	REFRIGERATOR - STORAGE RM.	600
			27	28	15A	ASSIGNED	
			29	30	15A	REFRIGERATOR - COL. 110/120	600 *
800	COMPUTER RECEPTACLES	15A	31	32	20A	ASSIGNED	
	ASSIGNED	15A	33	34	20A	ASSIGNED	
		15A	35	36	15A	COMPUTER RECEPTACLES	800 *
		20A	37	38	20A	ASSIGNED	
* 1200	RECEPTACLES (8)	15A	39	40			
* 1200	RECEPTACLES (8)	15A	41	42			

**EXISTING PANEL "RP102NR" - 208/120V, 3Ø, 4WIRE, 225A. BUS**

LOAD WATTS	SERVICE	TRIP	CIR. NO.	CIR. NO.	TRIP	SERVICE	LOAD WATTS
1300	RECEPTACLES (10) W.S. #546	15A	1	2	15A	MOTORIZED DAMPERS (5) & PROTECTION SCREEN	200
1350	RECEPTACLES (5) W.S. #447	15A	3	4	15A	ASSIGNED	
	ASSIGNED	15A	5	6			
		20A	7	8	15A	EMERGENCY LIT. (3) EXIT LIGHTS (3)	240
			9	10	15A	ASSIGNED	
			11	12	20A		
			13	14	15A		
			15	16			
		15A	17	18			
			19	20	40 AMP 2 POLE	ASSIGNED	
			21	22			
			23	24			
			25	26	15A	TELEPHONE RECEPTACLES (6)	300
			27	28	15A	ASSIGNED	
			29	30			
			31	32	15A	SPARE	
			33	34	15A	SPARE	
			35	36	15A	ASSIGNED	
			37	38			
			39	40	15A	SPARE	
			41	42	15A	ASSIGNED	

**NOTES:**

A. PROVIDE LOCKING CLIP ON CIR. #9 BREAKER TO INSURE THAT BREAKER CANNOT BE SWITCHED OFF.

B. \*- DENOTES BREAKERS TO BE INSTALLED. BREAKER TRIPS SHALL BE SIZED AS SHOWN ON PANEL SCHEDULES & SHALL BE OF SAME TYPE & INTERRUPTING CAPACITY AS EXISTING PANEL BREAKERS.

**EXISTING PANEL "LP102N" - 480/277V, 3Ø, 4WIRE (CONTRACTOR CONTROLLED)**

LOAD WATTS	SERVICE	TRIP	CIR. NO.	CIR. NO.	TRIP	SERVICE	LOAD WATTS
	ASSIGNED	20A	1	2	20A	ASSIGNED	
			3	4			
			5	6			
1528	LIGHTING - ADMINISTRATION BODY ROOMS #1 & 2 & STUDENT LOUNGE		7	8		LIGHTING - LOUNGE & ADMINISTRATION AREA	1864
1904	LIGHTING - WORK STATIONS #1 & 2 & CORED OR		9	10		SPARE	
1412	LIGHTING - WORK STATIONS #3 & 4 & CONFERENCE RM.		11	12		SPARE	
776	LIGHTING - WORK STATIONS #5 & 6		13	14		ASSIGNED	
	SPARE		15	16			
	SPARE		17	18			
	ASSIGNED		19	20			
			21	22			
			23	24			
			25	26			
	SPARE		27	28			
	ASSIGNED		29	30			

\* SEE NOTE "B" (TYPICAL)

**GENERAL NOTES:**

1. ALL CONDUITS SHALL BE 3/4" ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED.

2. METAL RACEWAY, METAL ENCLOSURES OF SWITCHES, RECEPTACLES, LIGHTING FIXTURES, ETC. SHALL BE COMPLETELY GROUNDED IN AN APPROVED MANNER. ALL FIXTURES SHALL HAVE SEPARATE GROUND WIRE.

3. THE CONTRACTOR SHALL PATCH IN AN APPROVED MANNER, ALL OPENINGS DUE TO REMOVAL OR INSTALLATION OF ELECTRICAL EQUIPMENT.

LOCK CLIP SEE NOTE "A" & "B"

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**THE PORT AUTHORITY OF NY & NJ**

**Engineering Department Design Division**

**The World Trade Center**

Title: **RECONSTRUCTION OF TENANT SPACE FOR INSTITUT SUPERIEUR DE GESTION**

**1 WTC 102ND FLOOR ELECTRICAL GENERAL NOTES, SYMBOLS & PANEL SCHEDULES**

No. Date Revision Approved

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

FILE G.E. N SPECTOR  
Designed by Drawn by Checked by  
Date 6/28/91 Scale NONE

Contract Number Drawing Number

**NYC-591.266 E-1**